

### AMENDMENTS TO THE SPECIFICATION

*Please amend the specification as follows:*

*Please replace page 9, lines 15-26, with the following rewritten paragraph:*

In Fig. 3A an exemplary embodiment ~~examples of embodiments~~ of the probe 30 ~~[[are]]~~ is illustrated. The probe may be formed as a single or multi-lumen catheter. The number of electrodes may be more than two. In fact improved measurements may be obtained by a four-electrode system with two outer electrodes 31, 32 generating a alternating current of constant magnitude between them and with two electrodes placed between the other electrodes for measurement of the potential difference between them 33, 34. The channel of the probe may be filled with a conducting liquid through an inlet hole 35. The probe may also be provided with an outlet hole, here illustrated as being present in the distal end of the probe, however the outlet may be present anywhere in the channel to establish a fluid perfusion through the channel of probe. It may be an advantage to perfuse fluid in order to avoid air bubbles inside the channel. The probe may be provided with a number of inlet holes 35-37, as well as exterior accessible wires or connectors 38.